BRUHAT BANGALORE MAHANAGARA PALIKE

Name of the Work : Comprehensive Development for Roads and Drains In Ward No. 7 And 8 Under CMC & TMC Grants, Kodigehalli Sub-Division, Yelahanka Zone, Byatarayanapura Division.

BYATARAYANAPURA DIVISION

DETAILED MEASURMENT BOOK

WARD NO :- 07 & 08

5th PART BILL

BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

DETAILED MEASURMENT BOOK

WARD NO :- 07

5th PART BILL

Name of the Work : Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 007-16-000035,007-16-000036,007-16-000037,007-16-000038,007-16-000039,007-16-000040,008-16-000033,008-16-000034,008-16-000035, 26621

Name of Agency :- M/s.Ram and Company

Bill No :5th and Part Bill

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)										
	KARIYANNA LAYOUT MAIN ROAD										
	LHS										
	0.00	15.00		1.00	15.00			0.60	0.70	6.30	
	15.00	22.00		1.00	7.00			0.60	0.70	2.94	
	22.00	27.50		0.00	5.50			0.60	0.70	0.00	**CULVRET**
	27.50	42.50		1.00	15.00			0.60	0.70	6.30	
	42.50	57.50		1.00	15.00			0.60	0.70	6.30	
	57.50	72.50		1.00	15.00			0.60	0.70	6.30	
	72.50	87.50		1.00	15.00			0.60	0.70	6.30	
	87.50	102.50		1.00	15.00			0.60	0.70	6.30	
	102.50	117.50		1.00	15.00			0.60	0.70	6.30	
	117.50	132.50		1.00	15.00			0.60	0.70	6.30	
	132.50	147.50		1.00	15.00			0.60	0.70	6.30	
	147.50	153.00		1.00	5.50			0.60	0.70	2.31	
	153.00	158.00		0.00	5.00			0.60	0.70	0.00	**CULVERT**
	158.00	173.00		1.00	15.00			0.60	0.70	6.30	
	173.00	188.00		1.00	15.00			0.60	0.70	6.30	
	188.00	203.00		1.00	15.00			0.60	0.70	6.30	
	203.00	218.00		1.00	15.00			0.60	0.70	6.30	
	218.00	233.00		1.00	15.00			0.60	0.70	6.30	
	233.00	241.70		1.00	8.70			0.60	0.70	3.65	
	RHS										
	0.00	15.00		1.00	15.00			0.60	0.70	6.30	
	15.00	30.00		1.00	15.00			0.60	0.70	6.30	
	30.00	45.00		1.00	15.00			0.60	0.70	6.30	
	45.00	60.00		1.00	15.00			0.60	0.70	6.30	
	60.00	75.00		1.00	15.00			0.60	0.70	6.30	
	75.00	90.00		1.00	15.00			0.60	0.70	6.30	
	90.00	105.00		1.00	15.00			0.60	0.70	6.30	

Consultant

M/s. RAM & COMPANY

Assistant Engineer

AE(HQ)
17/10/18

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
	105.00	120.00		1.00	15.00			0.60	0.70	6.30	
	120.00	135.00		1.00	15.00			0.60	0.70	6.30	
	135.00	150.00		1.00	15.00			0.60	0.70	6.30	
	150.00	165.00		1.00	15.00			0.60	0.70	6.30	
	165.00	180.00		1.00	15.00			0.60	0.70	6.30	
	180.00	195.00		1.00	15.00			0.60	0.70	6.30	
	195.00	210.00		1.00	15.00			0.60	0.70	6.30	
	210.00	225.00		1.00	15.00			0.60	0.70	6.30	
	225.00	241.70		1.00	16.70			0.60	0.70	7.01	
								Total		198.62	Cum

RAM & COMPANY

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
2	Removing and Resetting of Footpath Slab with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work										
	KARIYANNA LAYOUT MAIN ROAD										
	LHS										
	0.00	15.00		1.00	5.00			0.90		4.50	
	15.00	22.00		1.00	7.00			0.90		6.30	
	27.50	42.50		1.00	15.00			0.90		13.50	
	42.50	57.50		1.00	15.00			0.90		13.50	
	42.50	45.5		1.00	3.00			0.90		2.70	
	RHS										
	0.00	15.00		1.00	15.00			0.90		13.50	
	15.00	30.00		1.00	15.00			0.90		13.50	
	30.00	45.00		1.00	15.00			0.90		13.50	
	45.00	60.00		1.00	15.00			0.90		13.50	
	60.00	75.00		1.00	15.00			0.90		13.50	
									TOTAL	**108.00**	**SQM**

M/s. RAM & COMPANY

M/s. TEJ CONSULTANTS

Consultant

Assistant Engineer

AE (L-7)

26/10/18

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
3	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)										
	YASHODHANAGAR										
	1ST Cross Road										
	0.00	15.00		1.00	10.00			1.80		18.00	
	15.00	20.00		1.00	5.00			1.80		9.00	
	2nd Cross Road										
	LHS										
	0.00	15.00		1.00	15.00			1.80		27.00	
	15.00	30.00		1.00	10.00			1.80		18.00	
	30.00	45.00		1.00	12.00			1.80		21.60	
	45.00	60.00		1.00	10.00			1.80		18.00	
	60.00	75.00		1.00	13.00			1.80		23.40	
	75.00	90.00		1.00	8.00			1.80		14.40	
	90.00	105.00		1.00	15.00			1.80		27.00	
	105.00	120.00		1.00	8.00			1.80		14.40	
	RHS										
	0.00	15.00		1.00	12.00			1.80		21.60	
	15.00	30.00		1.00	8.00			1.80		14.40	
	30.00	45.00		1.00	14.00			1.80		25.20	
	45.00	60.00		1.00	8.00			1.80		14.40	
	60.00	75.00		1.00	5.00			1.80		9.00	
	75.00	90.00		1.00	8.00			1.80		14.40	
	90.00	105.00		1.00	10.00			1.80		18.00	
	105.00	120.00		1.00	8.00			1.80		14.40	
	1st Perpendicular Road from 1st Cross Road										
	LHS										
	0.00	15.00		1.00	15.00			1.80		27.00	
	15.00	30.00		1.00	15.00			1.80		27.00	
	30.00	45.00		1.00	12.00			1.80		21.60	
	45.00	60.00		1.00	10.00			1.80		18.00	
	60.00	80.00		1.00	16.00			1.80		28.80	
	RHS										
	0.00	15.00		1.00	12.00			1.80		21.60	
	15.00	30.00		1.00	8.00			1.80		14.40	
	30.00	45.00		1.00	15.00			1.80		27.00	
	45.00	60.00		1.00	6.00			1.80		10.80	
	60.00	80.00		1.00	12.00			1.80		21.60	
									TOTAL	**540.00**	**Sqm**

Consultant

Assistant Engineer

AE(RS) 30/10/18

Assistant Executive Engineer

30/10/18

Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
7	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work										
	KARIYANNA LAYOUT MAIN ROAD Raising side-wall.										
	LHS -										
	0.00	14.00		2.00	14.00			0.20	0.10	0.56	
	15.00	22.00		2.00	7.00			0.20	0.10	0.28	
	22.00	27.50		0.00	5.50			0.20	0.10	0.00	**CULVERT**
	28.00	32.00		2.00	4.00			0.20	0.10	0.16	
	35.00	45.00		2.00	10.00			0.20	0.10	0.40	
	58.00	73.00		2.00	15.00			0.20	0.10	0.60	
	70.00	85.00		2.00	15.00			0.20	0.10	0.60	
	78.00	82.00		2.00	4.00			0.20	0.10	0.16	
	82.00	97.00		2.00	15.00			0.20	0.10	0.60	
	97.00	104.00		0.00	7.00			0.20	0.10	0.00	**CULVERT**
	112.00	120.00		2.00	8.00			0.20	0.10	0.32	
	140.00	153.00		2.00	13.00			0.20	0.10	0.52	
	153.00	158.00		0.00	5.00			0.20	0.10	0.00	**CULVERT**
	160.00	175.00		2.00	15.00			0.20	0.10	0.60	
	175.00	190.00		2.00	15.00			0.20	0.10	0.60	
	190.00	200.00		2.00	10.00			0.20	0.10	0.40	
	200.00	211.00		2.00	11.00			0.20	0.10	0.44	
	211.00	223.00		2.00	12.00			0.20	0.10	0.48	
	230.00	241.70		2.00	11.70			0.20	0.10	0.47	
	RHS										
	0.00	15.00		2.00	15.00			0.20	0.10	0.60	
	15.00	30.00		2.00	15.00			0.20	0.10	0.60	
	30.00	45.00		2.00	15.00			0.20	0.10	0.60	
	50.00	65.00		2.00	15.00			0.20	0.10	0.60	
	65.00	80.00		2.00	15.00			0.20	0.10	0.60	
	80.00	82.00		2.00	2.00			0.20	0.10	0.08	
	85.00	100.00		2.00	15.00			0.20	0.10	0.60	
	105.00	120.00		2.00	15.00			0.20	0.10	0.60	
	120.00	130.00		2.00	10.00			0.20	0.10	0.40	
	130.00	145.00		2.00	15.00			0.20	0.10	0.60	

Consultant

M/s. RAM & COMPANY

Assistant Engineer

13.07

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	145.00	155.00		2.00	10.00			0.20	0.10	0.40	
	155.00	158.00		2.00	3.00			0.20	0.10	0.12	
	165.00	180.00		2.00	15.00			0.20	0.10	0.60	
	180.00	195.00		2.00	15.00			0.20	0.10	0.60	
	205.00	215.00		2.00	10.00			0.20	0.10	0.40	
	215.00	219.00		2.00	4.00			0.20	0.10	0.16	
	235.00	241.7		2.00	6.70			0.20	0.10	0.27	
	KARIYANNA LAYOUT MAIN ROAD										
	0.00	15.00		1.00	15.00	6.40	6.00	6.20	0.15	13.95	
	15.00	30.00		1.00	15.00	6.00	5.00	5.50	0.15	12.38	
	30.00	45.00		1.00	15.00	5.00	5.00	5.00	0.15	11.25	
	45.00	60.00		1.00	15.00	5.00	6.00	5.50	0.15	12.38	
	60.00	75.00		1.00	15.00	6.00	6.50	6.25	0.15	14.06	
	75.00	90.00		1.00	15.00	6.50	6.00	6.25	0.15	14.06	
	90.00	105.00		1.00	15.00	6.00	6.00	6.00	0.15	13.50	
	105.00	120.00		1.00	15.00	6.00	5.80	5.90	0.15	13.28	
	120.00	135.00		1.00	15.00	5.80	6.00	5.90	0.15	13.28	
	135.00	150.00		1.00	15.00	6.00	5.30	5.65	0.15	12.71	
	150.00	165.00		1.00	15.00	5.30	5.45	5.38	0.15	12.09	
	165.00	180.00		1.00	15.00	5.45	5.50	5.48	0.15	12.32	
	180.00	195.00		1.00	15.00	5.50	5.00	5.25	0.15	11.81	
	195.00	210.00		1.00	15.00	5.00	5.40	5.20	0.15	11.70	
	210.00	225.00		1.00	15.00	5.40	5.45	5.43	0.15	12.21	
	225.00	241.70		1.00	16.70	5.45	5.40	5.43	0.15	13.59	
	1st Cross Road (Railway Parallel Road)										
	0.00	15.00		1.00	15.00	3.00	3.00	3.00	0.15	6.75	
	15.00	30.30		1.00	15.30	3.00	3.00	3.00	0.15	6.89	
	2nd Cross Road (Railway Parallel Road)										
	0.00	9.00		1.00	9.00	2.50	3.00	2.75	0.15	3.71	
	9.00	16.00		1.00	7.00	3.00	3.30	3.15	0.15	3.31	
	16.00	26.30		1.00	10.30	3.30	3.50	3.40	0.15	5.25	
	26.30	35.00		1.00	8.70	3.50	3.60	3.55	0.15	4.63	
	3rdCross Road										
	0.00	15.00		1.00	15.00	5.65	6.15	5.90	0.15	13.28	
	15.00	27.40		1.00	12.40	6.15	6.40	6.28	0.15	11.67	
	L Shape Road 1st Cross										
	0.00	4.40		1.00	4.40	3.40	4.60	4.00	0.15	2.64	
	4.40	15.00		1.00	10.60	4.60	4.00	4.30	0.15	6.84	
	15.00	30.00		1.00	15.00	4.00	3.80	3.90	0.15	8.78	
	30.00	47.00		1.00	17.00	3.80	4.10	3.95	0.15	10.07	
	47.00	60.00		1.00	13.00	4.10	5.00	4.55	0.15	8.87	

Consultant

Assistant Engineer

Assistant Executive Engineer

Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage									312.26.	
	60.00	66.30		1.00	6.30	5.00	5.60	5.30	0.15	5.01	
	13th Cross Road Sanjeevini Nagar										
	0.00	15.00	C&FR	1.00	15.00	3.50	3.40	3.45	0.15	7.76	
	15.00	29.00		1.00	14.00	3.40	3.40	3.40	0.15	7.14	
								Total		**332.17**	**Cum**

26/01

Consultant

Assistant Engineer

05/11/18

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
14	KSRB 5-14: providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800 kg/m3 of size solid block 400x150x200mm having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185(Part 1):2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No. 5.4 (P.No.24, I.No.5.26.2 of PW, P&IWTD SR 2016-17)										
	KARIYANNA LAYOUT MAIN ROAD										
	LHS										
	0.00	14.00		2.00	14.00				0.40	11.20	
	15.00	22.00		2.00	7.00				0.40	5.60	
	22.00	27.50		0.00	5.50				0.40	0.00	
	28.00	32.00		2.00	4.00				0.40	3.20	
	35.00	45.00		2.00	10.00				0.40	8.00	
	58.00	73.00		2.00	15.00				0.40	12.00	
	70.00	85.00		2.00	15.00				0.40	12.00	
	78.00	82.00		2.00	4.00				0.40	3.20	
	82.00	97.00		2.00	15.00				0.40	12.00	
	97.00	104.00		0.00	7.00				0.40	0.00	
	112.00	120.00		2.00	8.00				0.40	6.40	
	140.00	153.00		2.00	13.00				0.40	10.40	
	153.00	158.00		0.00	5.00				0.40	0.00	
	160.00	175.00		2.00	15.00				0.40	12.00	
	175.00	190.00		2.00	15.00				0.40	12.00	
	190.00	200.00		2.00	10.00				0.40	8.00	
	200.00	211.00		2.00	11.00				0.40	8.80	
	211.00	223.00		2.00	12.00				0.40	9.60	
	230.00	241.70		2.00	11.70				0.40	9.36	
	RHS										
	0.00	15.00		2.00	15.00				0.40	12.00	
	15.00	30.00		2.00	15.00				0.40	12.00	
	30.00	45.00		2.00	15.00				0.40	12.00	
	50.00	65.00		2.00	15.00				0.40	12.00	
	65.00	80.00		2.00	15.00				0.40	12.00	
	80.00	82.00		2.00	2.00				0.40	1.60	
	85.00	100.00		2.00	15.00				0.40	12.00	
	105.00	120.00		2.00	15.00				0.40	12.00	
	120.00	120.00		2.00	0.00				0.40	0.00	
	130.00	145.00		2.00	15.00				0.40	12.00	
	145.00	155.00		2.00	10.00				0.40	8.00	

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
	155.00	160.00		2.00	5.00				0.40	4.00	
	165.00	180.00		2.00	15.00				0.40	12.00	
	180.00	198.00		2.00	18.00				0.40	14.40	
	205.00	215.00		2.00	9.00				0.40	7.20	
	215.00	219.00		2.00	4.00				0.40	3.20	
	235.00	241.7		2.00	6.70				0.40	5.36	
								Total		295.52	Cum

RAM & CO. CONSULTANTS

Consultant

Assistant Engineer
22/11/18

Assistant Executive Engineer
22/11/18
Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
17	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17)										
	KARIYANNA LAYOUT MAIN ROAD										
	Coppig Concrete										
	LHS										
	0.00	14.00		2.00	14.00			0.20	0.10	0.56	
	15.00	22.00		2.00	7.00			0.20	0.10	0.28	
	22.00	27.50		0.00	5.50			0.20	0.10	0.00	
	28.00	32.00		2.00	4.00			0.20	0.10	0.16	
	35.00	45.00		2.00	10.00			0.20	0.10	0.40	
	58.00	73.00		2.00	15.00			0.20	0.10	0.60	
	70.00	85.00		2.00	15.00			0.20	0.10	0.60	
	78.00	82.00		2.00	4.00			0.20	0.10	0.16	
	82.00	97.00		2.00	15.00			0.20	0.10	0.60	
	97.00	104.00		0.00	7.00			0.20	0.10	0.00	
	112.00	120.00		2.00	8.00			0.20	0.10	0.32	
	140.00	153.00		2.00	13.00			0.20	0.10	0.52	
	153.00	158.00		0.00	5.00			0.20	0.10	0.00	
	160.00	175.00		2.00	15.00			0.20	0.10	0.60	
	175.00	190.00		2.00	15.00			0.20	0.10	0.60	
	190.00	200.00		2.00	10.00			0.20	0.10	0.40	
	200.00	211.00		2.00	11.00			0.20	0.10	0.44	
	211.00	223.00		2.00	12.00			0.20	0.10	0.48	
	230.00	241.70		2.00	11.70			0.20	0.10	0.47	
	RHS										
	0.00	15.00		2.00	15.00			0.20	0.10	0.60	
	15.00	30.00		2.00	15.00			0.20	0.10	0.60	
	30.00	45.00		2.00	15.00			0.20	0.10	0.60	
	50.00	65.00		2.00	15.00			0.20	0.10	0.60	
	65.00	80.00		2.00	15.00			0.20	0.10	0.60	
	80.00	82.00		2.00	2.00			0.20	0.10	0.08	
	85.00	100.00		2.00	15.00			0.20	0.10	0.60	
	105.00	120.00		2.00	15.00			0.20	0.10	0.60	
	120.00	120.00		2.00	0.00			0.20	0.10	0.00	
	130.00	145.00		2.00	15.00			0.20	0.10	0.60	

Consultant

Assistant Engineer

Assistant Executive Engineer
Kodigehalli
Yelahanka Zone, B...
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
	145.00	155.00		2.00	10.00			0.20	0.10	0.40	
	155.00	158.00		2.00	3.00			0.20	0.10	0.12	
	165.00	180.00		2.00	15.00			0.20	0.10	0.60	
	180.00	195.00		2.00	15.00			0.20	0.10	0.60	
	205.00	215.00		2.00	10.00			0.20	0.10	0.40	
	215.00	219.00		2.00	4.00			0.20	0.10	0.16	
	235.00	241.7		2.00	6.70			0.20	0.10	0.27	

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.)
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Vent Concrete										
	KARIYANNA LAYOUT MAIN ROAD										
	LHS										
	0.00	15.00		1.00	15.00			0.60	0.15	1.31	
	15.00	22.00		1.00	7.00			0.60	0.15	0.61	
	22.00	27.50		0.00	5.50			0.60	0.15	0.00	**CULVRET**
	27.50	42.50		1.00	15.00			0.60	0.15	1.31	
	42.50	57.50		1.00	15.00			0.60	0.15	1.31	
	57.50	72.50		1.00	15.00			0.60	0.15	1.31	
	72.50	87.50		1.00	15.00			0.60	0.15	1.31	
	87.50	102.50		1.00	15.00			0.60	0.15	1.31	
	102.50	117.50		1.00	15.00			0.60	0.15	1.31	
	117.50	132.50		1.00	15.00			0.60	0.15	1.31	
	132.50	147.50		1.00	15.00			0.60	0.15	1.31	
	147.50	153.00		1.00	5.50			0.60	0.15	0.48	
	153.00	158.00		0.00	5.00			0.60	0.15	0.00	**CULVERT**
	158.00	173.00		1.00	15.00			0.60	0.15	1.31	
	173.00	188.00		1.00	15.00			0.60	0.15	1.31	
	188.00	203.00		1.00	15.00			0.60	0.15	1.31	
	203.00	218.00		1.00	15.00			0.60	0.15	1.31	
	218.00	233.00		1.00	15.00			0.60	0.15	1.31	
	233.00	241.70		1.00	8.70			0.60	0.15	0.76	
	RHS										
	0.00	15.00		1.00	15.00			0.60	0.15	1.31	
	15.00	30.00		1.00	15.00			0.60	0.15	1.31	
	30.00	45.00		1.00	15.00			0.60	0.15	1.31	
	45.00	60.00		1.00	15.00			0.60	0.15	1.31	
	60.00	75.00		1.00	15.00			0.60	0.15	1.31	
	75.00	90.00		1.00	15.00			0.60	0.15	1.31	
	90.00	105.00		1.00	15.00			0.60	0.15	1.31	
	105.00	120.00		1.00	15.00			0.60	0.15	1.31	
	120.00	135.00		1.00	15.00			0.60	0.15	1.31	
	135.00	150.00		1.00	15.00			0.60	0.15	1.31	
	150.00	165.00		1.00	15.00			0.60	0.15	1.31	
	165.00	180.00		1.00	15.00			0.60	0.15	1.31	
	180.00	195.00		1.00	15.00			0.60	0.15	1.31	
	195.00	210.00		1.00	15.00			0.60	0.15	1.31	
	210.00	225.00		1.00	15.00			0.60	0.15	1.31	
	225.00	241.70		1.00	16.70			0.60	0.15	1.45	
								Total		**55.76**	**Cum**

Consultant

Assistant Engineer
20/11/18

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
23	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)										
	KARIYANNA LAYOUT MAIN ROAD										
	0.00	15.00		1.00	15.00	6.40	6.00	6.20	0.30	27.90	
	15.00	30.00		1.00	15.00	6.00	5.00	5.50	0.30	24.75	
	30.00	45.00		1.00	15.00	5.00	5.00	5.00	0.30	22.50	
	45.00	60.00		1.00	15.00	5.00	6.00	5.50	0.30	24.75	
	60.00	75.00		1.00	15.00	6.00	6.50	6.25	0.30	28.13	
	75.00	90.00		1.00	15.00	6.50	6.00	6.25	0.30	28.13	
	90.00	105.00		1.00	15.00	6.00	6.00	6.00	0.30	27.00	
	105.00	120.00		1.00	15.00	6.00	5.80	5.90	0.30	26.55	
	120.00	135.00		1.00	15.00	5.80	6.00	5.90	0.30	26.55	
	135.00	150.00		1.00	15.00	6.00	5.30	5.65	0.30	25.43	
	150.00	165.00		1.00	15.00	5.30	5.45	5.38	0.30	24.19	
	165.00	180.00		1.00	15.00	5.45	5.50	5.48	0.30	24.64	
	180.00	195.00		1.00	15.00	5.50	5.00	5.25	0.30	23.63	
	195.00	210.00		1.00	15.00	5.00	5.40	5.20	0.30	23.40	
	210.00	225.00		1.00	15.00	5.40	5.45	5.43	0.30	24.41	
	225.00	241.70		1.00	16.70	5.45	5.40	5.43	0.30	27.18	
	1st Cross Road (Railway Parallel Road)										
	0.00	15.00		1.00	15.00	3.00	3.00	3.00	0.30	13.50	
	15.00	30.30		1.00	15.30	3.00	3.00	3.00	0.30	13.77	
	2nd Cross Road (Railway Parallel Road)										
	0.00	9.00		1.00	9.00	2.50	3.00	2.75	0.30	7.43	
	9.00	16.00		1.00	7.00	3.00	3.30	3.15	0.30	6.62	
	16.00	26.30		1.00	10.30	3.30	3.50	3.40	0.30	10.51	
	26.30	35.00		1.00	8.70	3.50	3.60	3.55	0.30	9.27	
	3rdCross Road										
	0.00	15.00		1.00	15.00	5.65	6.15	5.90	0.30	26.55	
	15.00	27.40		1.00	12.40	6.15	6.40	6.28	0.30	23.34	
	L Shape Road 1st Cross										
	0.00	4.40		1.00	4.40	3.40	4.60	4.00	0.30	5.28	
	4.40	15.00		1.00	10.60	4.60	4.00	4.30	0.30	13.67	
	15.00	30.00		1.00	15.00	4.00	3.80	3.90	0.30	17.55	
	30.00	47.00		1.00	17.00	3.80	4.10	3.95	0.30	20.15	
	47.00	60.00		1.00	13.00	4.10	5.00	4.55	0.30	17.75	

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	60.00	66.30		1.00	6.30	5.00	5.60	5.30	0.30	10.02	
	13th Cross Road Sanjeevini										
	0.00	15.00		1.00	15.00	3.50	3.40	3.45	0.15	7.76	
	15.00	29.00		1.00	14.00	3.40	3.40	3.40	0.15	7.14	
	yashodhanagar										
	0.00	30.00		1.00	30.00	6.40	6.10	6.25	0.30	56.25	
	30.00	60.00		1.00	30.00	6.10	5.30	5.70	0.30	51.30	
	60.00	90.00		1.00	30.00	3.50	4.70	4.10	0.30	36.90	
	90.00	120.00		1.00	30.00	4.70	6.00	5.35	0.30	48.15	
	120.00	133.00		1.00	13.00	6.00	6.00	6.00	0.30	23.40	
							Total Quantity			**835.40**	**Cum**

Consultant

Assistant Engineer
01/12/18

Assistant Executive Engineer
1/12/18
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
24	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work										
	yashodhanagar										
	0.00	30.00		1.00	30.00	6.40	6.10	6.25	0.25	46.88	
	30.00	60.00		1.00	30.00	6.10	5.30	5.70	0.25	42.75	
	60.00	90.00		1.00	30.00	3.50	4.70	4.10	0.25	30.75	
	90.00	120.00		1.00	30.00	4.70	6.00	5.35	0.25	40.13	
	120.00	133.00		1.00	13.00	6.00	6.00	6.00	0.25	19.50	
							Total Quantity			**180.00**	cum

Consultant

Assistant Engineer
10/12/18

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

me Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and rrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.											
O Q em	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
25	Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)										
	yashodhanagar										
	0.00	30.00		1.00	30.00	6.40	6.10	6.25		187.50	
	30.00	60.00		1.00	30.00	6.10	5.30	5.70		171.00	
	60.00	90.00		1.00	30.00	3.50	4.70	4.10		123.00	
	90.00	120.00		1.00	30.00	4.70	6.00	5.35		160.50	
	120.00	133.00		1.00	13.00	6.00	6.00	6.00		78.00	
							Total Quantity			**720.00**	
										255.00	
							Quantity Limted to			**465.00**	sqm

M/S RAM & COMPANY

Consultant

Assistant Engineer
10/12/18

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
27	Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)										
	Yashodhanagar										
	0.00	30.00		1.00	30.00	6.40	6.10	6.25		187.50	
	30.00	60.00		1.00	30.00	6.10	5.30	5.70		171.00	
	60.00	90.00		1.00	30.00	3.50	4.70	4.10		123.00	
	90.00	120.00		1.00	30.00	4.70	6.00	5.35		160.50	
	120.00	133.00		1.00	13.00	6.00	6.00	6.00		78.00	
							Total Quantity			**720.00**	sqm

M/s. RAM & COMPANY CONSULTANTS

Consultant

Assistant Engineer
15/12/18

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
29	Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)										
	yashodhanagar										
	0.00	30.00		1.00	30.00	6.40	6.10	6.25	0.04	7.50	
	30.00	60.00		1.00	30.00	6.10	5.30	5.70	0.04	6.84	
	60.00	90.00		1.00	30.00	3.50	4.70	4.10	0.04	4.92	
	90.00	120.00		1.00	30.00	4.70	6.00	5.35	0.04	6.42	
	120.00	133.00		1.00	13.00	6.00	6.00	6.00	0.04	3.12	
							Total Quantity			**28.80**	**CUM**

CSFL

Consultant

Assistant Engineer
15/12/18

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, I ... ut and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
30	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) ((P.No.177, I.No.22.6.1 of PW,P&IWTD SR 2016-17)									
	KARIYANNA LAYOUT MAIN ROAD									
	0.00	15.00		1.00	15.00	6.40	6.00	6.20	0.15	13.95
	15.00	30.00		1.00	15.00	6.00	5.00	5.50	0.15	12.38
	30.00	45.00		1.00	15.00	5.00	5.00	5.00	0.15	11.25
	45.00	60.00		1.00	15.00	5.00	6.00	5.50	0.15	12.38
	60.00	75.00		1.00	15.00	6.00	6.50	6.25	0.15	14.06
	75.00	90.00		1.00	15.00	6.50	6.00	6.25	0.15	14.06
	90.00	105.00		1.00	15.00	6.00	6.00	6.00	0.15	13.50
	105.00	120.00		1.00	15.00	6.00	5.80	5.90	0.15	13.28
	120.00	135.00		1.00	15.00	5.80	6.00	5.90	0.15	13.28
	135.00	150.00		1.00	15.00	6.00	5.30	5.65	0.15	12.71
	150.00	165.00		1.00	15.00	5.30	5.45	5.38	0.15	12.09
	165.00	180.00		1.00	15.00	5.45	5.50	5.48	0.15	12.32
	180.00	195.00		1.00	15.00	5.50	5.00	5.25	0.15	11.81
	195.00	210.00		1.00	15.00	5.00	5.40	5.20	0.15	11.70
	210.00	225.00		1.00	15.00	5.40	5.45	5.43	0.15	12.21
	225.00	241.70		1.00	16.70	5.40	5.40	5.40	0.15	13.53
	1st Cross Road (Railway Parallel Road)									
	0.00	15.00		1.00	15.00	3.00	3.00	3.00	0.10	4.50
	15.00	30.30		1.00	15.30	3.00	3.00	3.00	0.10	4.59
	2nd Cross Road (Railway Parallel Road)									
	0.00	9.00		1.00	9.00	2.50	3.00	2.75	0.10	2.48
	9.00	16.00		1.00	7.00	3.00	3.30	3.15	0.10	2.21
	16.00	26.30		1.00	10.30	3.30	3.50	3.40	0.10	3.50

221.74

Consultant

M/S CONSULTANTS

M/S ... & COMPANY

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage									221.74	
	26.30	35.00		1.00	8.70	3.50	3.60	3.55	0.10	3.09	
	3rdCross Road										
	0.00	15.00		1.00	15.00	5.65	6.15	5.90	0.15	13.28	
	15.00	27.40		1.00	12.40	6.15	6.40	6.28	0.10	7.78	
	L Shape Road 1st Cross										
	0.00	4.40		1.00	4.40	3.40	4.60	4.00	0.10	1.76	
	4.40	15.00		1.00	10.60	4.60	4.00	4.30	0.10	4.56	
	15.00	30.00		1.00	15.00	4.00	3.80	3.90	0.10	5.85	
	30.00	47.00		1.00	17.00	3.80	4.10	3.95	0.10	6.72	
	47.00	60.00		1.00	13.00	4.10	5.00	4.55	0.10	5.92	
	60.00	66.30		1.00	6.30	5.00	5.60	5.30	0.10	3.34	
	13th Cross Road Sanjeevini										
	0.00	15.00		1.00	15.00	3.50	3.40	3.45	0.10	5.18	
	15.00	29.00		1.00	14.00	3.40	3.40	3.40	0.10	4.76	
							Total Quantity			**283.98**	**Cum**

Consultant

Asstply. N D.
Assistant Engineer
12/12/18

Assistant Executive Engineer
17/12

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
31	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWTD SR 2016-17)										
	KARIYANNA LAYOUT MAIN ROAD										
	0.00	15.00		1.00	15.00	6.40	5.95	6.18		92.63	
	15.00	30.00		1.00	15.00	5.95	5.00	5.48		82.13	
	30.00	45.00		1.00	15.00	5.00	5.00	5.00		75.00	
	45.00	60.00		1.00	15.00	5.00	5.60	5.30		79.50	
	60.00	75.00		1.00	15.00	5.60	5.90	5.75		86.25	
	75.00	90.00		1.00	15.00	5.90	5.80	5.85		87.75	
	90.00	105.00		1.00	15.00	5.80	5.75	5.78		86.63	
	105.00	120.00		1.00	15.00	5.75	5.60	5.68		85.13	
	120.00	135.00		1.00	15.00	5.60	5.10	5.35		80.25	
	135.00	150.00		1.00	15.00	5.10	5.30	5.20		78.00	
	150.00	165.00		1.00	15.00	5.30	5.45	5.38		80.63	
	165.00	180.00		1.00	15.00	5.45	5.00	5.23		78.38	
	180.00	195.00		1.00	15.00	5.00	4.60	4.80		72.00	
	195.00	210.00		1.00	15.00	4.60	5.40	5.00		75.00	
	210.00	225.00		1.00	15.00	5.40	5.45	5.43		81.38	
	225.00	241.70		1.00	16.70	5.40	5.40	5.40		90.18	
	1st Cross Road (Railway Parallel Road)										
	0.00	15.00		1.00	15.00	3.20	3.10	3.15		47.25	
	15.00	30.30		1.00	15.30	3.10	3.20	3.15		48.20	
	2nd Cross Road (Railway Parallel Road)										
	0.00	9.00		1.00	9.00	2.20	2.95	2.58		23.18	
	9.00	16.00		1.00	7.00	2.95	3.30	3.13		21.88	
	16.00	26.30		1.00	10.30	3.30	3.20	3.25		33.48	
	26.30	35.00		1.00	8.70	3.20	3.60	3.40		29.58	
	3rdCross Road										
	0.00	15.00		1.00	15.00	5.65	6.15	5.90		88.50	
	15.00	27.40		1.00	12.40	6.15	6.40	6.28		77.81	
	L Shape Road 1st Cross										
	0.00	4.40		1.00	4.40	3.40	4.60	4.00		17.60	
	4.40	15.00		1.00	10.60	4.60	3.85	4.23		44.79	
	15.00	30.00		1.00	15.00	3.85	3.80	3.83		57.38	
	30.00	47.00		1.00	17.00	3.80	4.10	3.95		67.15	
	47.00	60.00		1.00	13.00	5.40	5.00	5.20		67.60	
	60.00	66.30		1.00	6.30	5.00	5.60	5.30		33.39	
							Total Quantity			**1968.57**	**sqm**

Consultant

Assistant Engineer
12/12/18

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
32	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P.No.25, I.No.5.30 of PW,P&IWTD S.R 2016-17)										
	SUB DIVISION OFFICE										
	0.00	15.00		1.00	15.00					15.00	
	15.00	30.00		1.00	15.00					15.00	
	30.00	38.00		1.00	8.00					8.00	
									TOTAL	38.00	
								Total Quantity		84.44	NOS

Consultant

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
35	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work									
	SUB DIVISION OFFICE									
	0.00	5.00		1	5.00	21.65	20.05	20.85		104.25
	5.00	15.00		1	10.00	20.05	20.05	20.05		200.50
	15.00	26.10		1	11.10	20.05	20.05	20.05		222.56
	DETUCTUONS									
				10	0.5			0.5		-2.50
				2	0.5			0.5		-0.50
				1	3.5			3.1		-10.85
				1	2.5			0.4		-1.00
				2	0.8			0.8		-1.28
							Total Quantity		**511.18**	**SQM**

Consultant

Assistant Engineer
12/12/18

Assistant Executive Engineer
Assistant Executive Engi
Kodigehalli Sub Divisi
Yelahanka Zone, B.B.M.
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
36	Providing and resetting of available heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm jOints, final compaction of paver surface joints into its final level, includingthick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between labour and HOM of machineries complete as per specifications (P.No 101 of I.No.14.6 in PW,P&IWTD SR 2016-17)										
	Jakkur Plantation										
	Available Cobble Stone										
	0.00	15.00		1.00	15.00	1.95	1.95	1.95		29.25	
	15.00	30.00		1.00	15.00	1.95	1.95	1.95		29.25	
	30.00	60.00		1.00	30.00	1.95	1.95	1.95		58.50	
	60.00	75.00		1.00	15.00	1.95	1.95	1.95		29.25	
	75.00	83.00		1.00	8.00	1.95	1.95	1.95		15.60	
							Total Quantity			**161.85**	**SQM**

Consultant

TEJUS CONSULTANTS

Assistant Engineer

14/12/18

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Name Of work : - Improvements to Roads and drains at Kempapura, Yogeshnagar, Kariyanna layout and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
37	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)									
	yashodhanagar									
	EDGE LINE									
				2.00	133.00			0.10	26.60	
	CENTER LINE									
				1.00	66.50			0.10	6.65	
							Total Quantity		**33.25**	sqm

Consultant

Assistant Engineer

22/12/18

Assistant Executive Engineer

Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.